```
=> d his ful; d que sta

     (FILE 'HOME' ENTERED AT 14:40:10 ON 08 MAY 2008)

     FILE 'REGISTRY' ENTERED AT 14:40:24 ON 08 MAY 2008
L1      4324310 SEA ABB=ON  PLU=ON  SQL<=20
L2        48380 SEA ABB=ON  PLU=ON  L1 AND X...^/SQSP
L3         3997 SEA ABB=ON  PLU=ON  L2 AND CYCLIC/NTE
L4        44383 SEA ABB=ON  PLU=ON  L2 NOT L3
                D L4 1-2 SQIDE
L5              ANALYZE PLU=ON  L4 1- LC :       8 TERMS  (ANALYZE ENDED BY
                USER)
                D

     FILE 'ZCAPLUS, USPATFULL, USPATOLD, USPAT2, TOXCENTER' ENTERED AT
     14:50:23 ON 08 MAY 2008
L6        37907 SEA ABB=ON  PLU=ON  L4

     FILE 'REGISTRY' ENTERED AT 14:52:13 ON 08 MAY 2008
L7         2258 SEA ABB=ON  PLU=ON  L4 AND 'BAL'...^/SQSP
L8         4941 SEA ABB=ON  PLU=ON  L4 AND ['AIB''BAL']...^/SQSP
L9              STRUCTURE UPLOADED
                D
L10          173 SEA SUB=L3 SSS FUL L9
L11             ANALYZE PLU=ON  L10 1- LC :      15 TERMS
                D
L12         5114 SEA ABB=ON  PLU=ON  L10 OR L8

     FILE 'ZCAPLUS' ENTERED AT 15:29:50 ON 08 MAY 2008
L13          102 SEA ABB=ON  PLU=ON  L10
L14           65 SEA ABB=ON  PLU=ON  L13 AND (PD<=20010611 OR PRD<=20010611)
L15           65 SEA ABB=ON  PLU=ON  L14 AND (PD<20010611 OR PRD<20010611)
L16           56 SEA ABB=ON  PLU=ON  L15 AND (PD<20000611 OR PRD<20000611)
L17           22 SEA ABB=ON  PLU=ON  L16 AND (CONJUG? OR LINK?)
                D L17 1-22 IBIB HITSTR
L18         1649 SEA ABB=ON  PLU=ON  L8
L19         1179 SEA ABB=ON  PLU=ON  L18 AND (PD<=20010611 OR PRD<=20010611)
L20         1062 SEA ABB=ON  PLU=ON  L19 AND (PD<=20000611 OR PRD<=20000611)
L21          117 SEA ABB=ON  PLU=ON  L20 AND (CONJUG? OR LINK?)
L22            1 SEA ABB=ON  PLU=ON  L21 AND L17
                D
                D HITSTR
L23          116 SEA ABB=ON  PLU=ON  L21 NOT L22
L24            3 SEA ABB=ON  PLU=ON  L23 AND CYCLIC
L25            1 SEA ABB=ON  PLU=ON  L23 AND CYCLO
L26           14 SEA ABB=ON  PLU=ON  L23 AND CYCLO?
                D L23 1- IBIB HITSTR


     FILE HOME

     FILE REGISTRY
     Property values tagged with IC are from the ZIC/VINITI data file
     provided by InfoChem.

     STRUCTURE FILE UPDATES:    7 MAY 2008  HIGHEST RN 1019993-29-3
```

DICTIONARY FILE UPDATES: 7 MAY 2008 HIGHEST RN 1019993-29-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

FILE ZCAPLUS
FILE COVERS 1907 - 8 May 2008 VOL 148 ISS 19
FILE LAST UPDATED: 7 May 2008 (20080507/ED)

FILE USPATFULL
FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 May 2008 (20080508/PD)
FILE LAST UPDATED: 8 May 2008 (20080508/ED)
CA INDEXING IS CURRENT THROUGH 8 May 2008 (20080508/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 May 2008 (20080508/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2008

FILE USPATOLD
FILE COVERS U.S. PATENTS 1790-1975

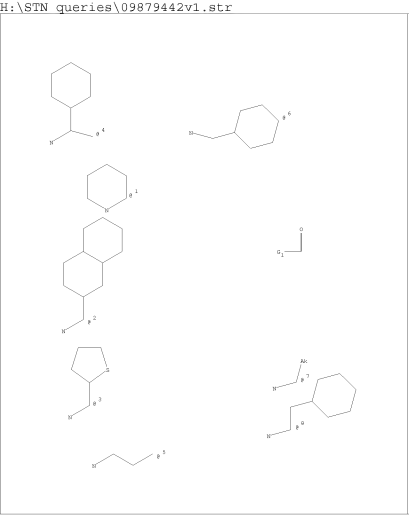
FILE USPAT2
FILE COVERS 2001 TO PUBLICATION DATE: 8 May 2008 (20080508/PD)
FILE LAST UPDATED: 8 May 2008 (20080508/ED)
CA INDEXING IS CURRENT THROUGH 8 May 2008 (20080508/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 May 2008 (20080508/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2008

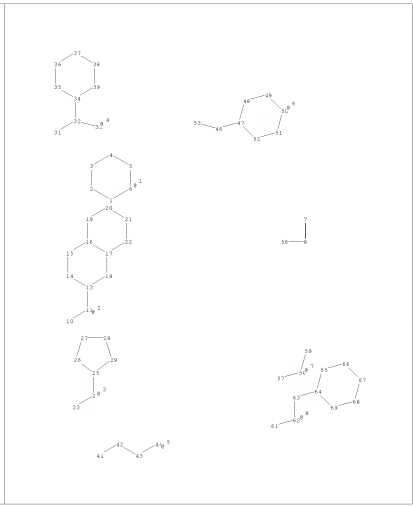
FILE TOXCENTER
FILE COVERS 1907 TO 6 May 2008 (20080506/ED)

```
L1      4324310 SEA FILE=REGISTRY ABB=ON  PLU=ON  SQL<=20
L2        48380 SEA FILE=REGISTRY ABB=ON  PLU=ON  L1 AND X...^/SQSP
L3         3997 SEA FILE=REGISTRY ABB=ON  PLU=ON  L2 AND CYCLIC/NTE
L4        44383 SEA FILE=REGISTRY ABB=ON  PLU=ON  L2 NOT L3
L8         4941 SEA FILE=REGISTRY ABB=ON  PLU=ON  L4 AND ['AIB''BAL']...^/SQSP

L9              STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.
L10          173 SEA FILE=REGISTRY SUB=L3 SSS FUL L9
L13          102 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L10
L14           65 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L13 AND (PD<=20010611 OR
                 PRD<=20010611)
L15           65 SEA FILE=ZCAPLUS ABB=ON  PLU=ON  L14 AND (PD<20010611 OR
```

		PRD<20010611)			
L16	56	SEA FILE=ZCAPLUS ABB=ON	PLU=ON	L15 AND (PD<20000611 OR PRD<20000611)	
L17	22	SEA FILE=ZCAPLUS ABB=ON	PLU=ON	L16 AND (CONJUG? OR LINK?)	
L18	1649	SEA FILE=ZCAPLUS ABB=ON	PLU=ON	L8	
L19	1179	SEA FILE=ZCAPLUS ABB=ON	PLU=ON	L18 AND (PD<=20010611 OR PRD<=20010611)	
L20	1062	SEA FILE=ZCAPLUS ABB=ON	PLU=ON	L19 AND (PD<=20000611 OR PRD<=20000611)	
L21	117	SEA FILE=ZCAPLUS ABB=ON	PLU=ON	L20 AND (CONJUG? OR LINK?)	
L22	1	SEA FILE=ZCAPLUS ABB=ON	PLU=ON	L21 AND L17	
L23	116	SEA FILE=ZCAPLUS ABB=ON	PLU=ON	L21 NOT L22	
L26	14	SEA FILE=ZCAPLUS ABB=ON	PLU=ON	L23 AND CYCLO?	

H:\STN queries\09879442v1.str





chain nodes :
7 8 10 11 23 24 31 32 33 41 42 43 44 46 53 56 57 58 59 61 62 63
ring nodes :
1 2 3 4 5 6 13 14 15 16 17 18 19 20 21 22 25 26 27 28 29 34 35 36 37
38 39 47 48 49 50 51 52 64 65 66 67 68 69
chain bonds :
7-8 8-56 10-11 11-13 23-24 24-25 31-32 32-33 32-34 41-42 42-43 43-44 46-47 46-53
57-58 58-59 61-62 62-63 63-64
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 16-19 17-18 17-22 19-20
20-21 21-22 25-26 25-29 26-27 27-28 28-29 34-35 34-39 35-36 36-37 37-38 38-39
47-48 47-52 48-49 49-50 50-51 51-52 64-65 64-69 65-66 66-67 67-68 68-69
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 8-56 10-11 13-14 13-18 14-15 15-16 16-17 16-19 17-18
17-22 19-20 20-21 21-22 23-24 25-26 25-29 26-27 27-28 28-29 31-32 34-35 34-39
35-36 36-37 37-38 38-39 41-42 46-53 47-48 47-52 48-49 49-50 50-51 51-52 57-58
58-59 61-62 64-65 64-69 65-66 66-67 67-68 68-69
exact bonds :
11-13 24-25 32-33 32-34 42-43 43-44 46-47 62-63 63-64

G1:[*1],[*2],[*3],[*4],[*5],[*6],[*7],[*8]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 10:CLASS 11:CLASS 13:Atom
14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:CLASS
24:CLASS 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 31:CLASS 32:CLASS 33:CLASS 34:Atom
35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 41:CLASS 42:CLASS 43:CLASS 44:CLASS 46:CLASS
47:Atom 48:Atom 49:Atom 50:Atom 51:Atom 52:Atom 53:CLASS 56:CLASS 57:CLASS 58:CLASS
59:CLASS 61:CLASS 62:CLASS 63:CLASS 64:Atom 65:Atom 66:Atom 67:Atom 68:Atom 69:Atom